Bruhat Bangalore Mahanagara Palike
Executive Engineer Yelahanka Division

Name of Work-''Resurfacing of Roads At Munithimmaiah Layout, Kondappa Gardens Main And Cross Roads in Kempegowda Ward No-01''

Sl No	Description of Items	Unit	No	Length	Width	Depth	Estimate Cost Quantity	50.00 Lakhs Rate	Amount
1	Removing And Resetting Of Footpath Slab [Approved Rate]								
	(Yelahanka zone) Appproved Rate	**235.00**							
		Sqm							
	Kondappa Garden								
	At End		2	15.00	0.75		22.50		
			2	63.00	0.75		94.50		
	2nd Cross Rd		2	54.00	0.75		81.00		
	3rd Cross Rd		2	20.00	0.75		30.00		
	4th Cross Rd		2	23.00	0.75		34.50		
	Munithimmaiah Layout		2	23.00	0.75		34.50		
	2nd Cross Rd								
	3rd Cross Rd		2	26.00	0.75		39.00		
	Pappana Layout		2	22.00	0.75		33.00		
	8th Cross Rd								
	8thA Cross Rd		2	65.00	0.75		97.50		
	5th Cross Rd(GSST SUFI English School)		2	67.00	0.75		100.50		
	Main Road		2	200.00	0.75		300.00		
			2	145.00	0.75		217.50		
	Consider 60%						1084.50		
	Deduct 20% Missing/ Damaged Slab						650.70		
							130.14		
							520.56	**235.00**	**122331.60**
2	**Earth work excavation by manual means** for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work . (V-I.No 1.4,Page No-5 CSR 2023-24) & (V-III Page No.5, Item No.1.1C of CSR 2023-24)								
	Basic rate	**242.00**							
	loading And Unloading	**86.00**							
	Sub Total	**328.00**							
	Area Weightage 10%	**32.80**							
	Total	**360.80**							
		Cum							
	Drain Desilt								
	Kondappa Garden								
	At End		2	15.00	0.45	0.40	5.40		
			2	63.00	0.45	0.40	22.68		
			2	54.00	0.45	0.40	19.44		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	2nd Cross Rd		2	20.00	0.45	0.40	7.20		
	3rd Cross Rd		2	23.00	0.45	0.40	8.28		
	4th Cross Rd		2	23.00	0.45	0.40	8.28		
	Munithimmaiah Layout								
	2nd Cross Rd		2	26.00	0.45	0.40	9.36		
	3rd Cross Rd		2	22.00	0.45	0.40	7.92		
	Pappana Layout								
	8th Cross Rd		2	65.00	0.45	0.40	23.40		
	8thA Cross Rd		2	67.00	0.45	0.40	24.12		
	5th Cross Rd(GSST SUFI English School)		2	200.00	0.45	0.45	81.00		
	Main Road		2	145.00	0.45	0.55	71.78		
							288.86		
	Deduct 10% Voids						28.89		
							259.97	**360.80**	**93,797.00**
3	Providing and fixing precast reinforced cement concrete **covering slabs of 10Cm thick** made of M20 with OPC cement, with 20mm and down size graded granite metal coarse aggregate @0.70cum and fine aggregate & 0.74 cum with superplasticizer machine,mixed, Inculding providing and removing centering, shuttering, strutting propping etc., for edges of slabs with TMT steel (Fe500) cost of all materials, labour, all lead and lift, HOM of machinery, curing, including cost of reinforcement etc., complete as directed by the Engineer in charge of the work.(Exclusive of GST) Approved Rate								
	(Yelahanka zone) Data Rate	**2072.00**							
		Sqm							
	Damaged/ Missing Slab From Item No-01						**130.14**		
							130.14	**2072.00**	**269650.08**
4	**Dismantling of cement** concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 m3 in volume and stock piling at designated locations and disposal of dismantled materials and stacking serviceable and unserviceable materials separatel (V-III Page No.12, Item No.2.19 of CSR 2023-24)								
	Basic rate	**563.00**							
	Area Weightage 10%	**56.30**							
	Total	**619.30**							
		Cum							
	For CC Road								
	Munithimmaiah Layout								
	2nd Cross Rd		1	26.00	4.00	0.20	20.80		
	3rd Cross Rd		1	22.00	4.00	0.20	17.60		
	At End		1	7.00	4.50	0.20	6.30		
							44.70		
	Deduct 25% Voids						**11.18**		
							33.53	**619.30**	**20,762.03**
5	**Earth work in surface excavation by mechanical means** for lowering & leveling the ground for all works other than foundation in all kinds of soils & upto depth not exceeding 300mm as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter including dressing of excavated surfaces, disposing off or levelling the excavated earth or sorting & stacking the selected earth for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools, usage of machinery & other appurtenances required to complete the work In all kinds of soils upto 300 mm depth ((V-I, P.No-8, I No-1.12 of CSR 2023-24)								
	Basic rate	**95.00**							
	Area Weightage 10%	**9.50**							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Total	104.50							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Kondappa Garden								
	At End		1	63.00	0.80	0.20	10.08		
			1	54.00	0.80	0.20	8.64		
	2nd Cross Rd		1	20.00	0.30	0.20	1.20		
	3rd Cross Rd		1	23.00	0.30	0.20	1.38		
	Pappana Layout								
	8th Cross Rd		1	65.00	1.00	0.20	13.00		
	8thA Cross Rd		1	67.00	1.00	0.20	13.40		
	5th Cross Rd(GSST SUFI English School)		1	200.00	1.00	0.20	40.00		
	Main Road		1	190.00	0.70	0.20	26.60		
	For New Asphalt Road								
	Kondappa Garden								
	At End		1	15.00	5.60	0.30	25.20		
	1st Cross Rd		1	15.00	4.00	0.30	18.00		
	For CC Road								
	Pappana Layout								
	Near SWD Drain		1	30.00	4.00	0.25	30.00		
							187.50	**104.50**	**19,593.75**
6	Providing, laying, spreading and compacting graded stone aggregate to **wet mix macadam** specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver/grader in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density (V-III, P.No-26,I No-4.17)of CSR 2023-24).								
	Basic rate	**2559.00**							
	Area Weightage 10%	**255.90**							
	Total	**2814.90**							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Kondappa Garden								
	At End		1	63.00	0.80	0.225	11.34		
			1	54.00	0.80	0.225	9.72		
	2nd Cross Rd		1	20.00	0.30	0.225	1.35		
	3rd Cross Rd		1	23.00	0.30	0.225	1.55		
	Pappana Layout								
	8th Cross Rd		1	65.00	1.00	0.225	14.63		
	8thA Cross Rd		1	67.00	1.00	0.225	15.08		
	5th Cross Rd(GSST SUFI English School)		1	200.00	1.00	0.225	45.00		
	Main Road		1	190.00	0.70	0.225	29.93		
	For New Asphalt Road								
	Kondappa Garden								
	At End		1	15.00	5.60	0.225	18.90		
	1st Cross Rd		1	15.00	4.00	0.225	13.50		

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
7	Providing and applying **primer coat** with SS1 grade Bitumen Emulsion on prepared surface of granular base including cleaning of road surface and spraying primer at the rate of 0.90 kg per m2 using mechanical means. (V-III, P.No-31,I No-5.1(i) of CSR 2023-24).						160.99	2814.90	453163.71
	Basic rate	41.00							
	Area Weightage 10%	4.10							
	Total	45.10							
		Sqm							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Kondappa Garden								
	At End		1	63.00	0.80		50.40		
	2nd Cross Rd		1	54.00	0.80		43.20		
	3rd Cross Rd		1	20.00	0.30		6.00		
	Pappana Layout		1	23.00	0.30		6.90		
	8th Cross Rd								
	8thA Cross Rd		1	65.00	1.00		65.00		
	5th Cross Rd(GSST SUFI English School)		1	67.00	1.00		67.00		
	Main Road		1	200.00	1.00		200.00		
	For New Asphalt Road		1	190.00	0.70		133.00		
	Kondappa Garden								
	At End								
	1st Cross Rd		1	15.00	5.60		84.00		
			1	15.00	4.00		60.00		
							715.50	**45.10**	**32,269.05**
8	Providing and applying **tack coat** with VG-10 Bitumen using pressure distributor at the rate of 0.20 kg/m2on the prepared bituminous surface cleaned with mechanical broom.(V-III, P.No-43,I No-5.32 of CSR 2023-24).								
	Basic rate	12.00							
	Area Weightage 10%	1.20							
	Total	13.20							
		Sqm							
	For BC								
	Kondappa Garden								
	At End		1	15.00	5.60		84.00		
			1	63.00	5.80		365.40		
			1	54.00	5.20		280.80		
	1st Cross Rd		1	15.00	4.00		60.00		
	2nd Cross Rd		1	20.00	4.00		80.00		
	3rd Cross Rd		1	23.00	4.00		92.00		
	Pappana Layout								
	8th Cross Rd		1	65.00	6.00		390.00		
	8thA Cross Rd		1	67.00	5.00		335.00		
	5th Cross Rd(GSST SUFI English School)		1	200.00	5.70		1140.00		
	Main Road		1	190.00	5.60		1064.00		
							3891.20	**13.20**	**51,363.84**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
9	Providing and laying Dense **Graded Bituminous Macadam** with 40/60 TPH capacity HMP using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 4.5 per cent by weight of total mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRTH specification clause No. 505 complete in all respects. (V-III, P.No-35,I No 5.12C of CSR 2023-24).								
	Basic rate	**9449.00**							
	Area Weightage 10%	**944.90**							
	Total	**10393.90**							
		Cum							
	For Asphalt Edge Correction & Damaged Portion / Pipeline cut portion								
	Kondappa Garden								
	At End		1	63.00	0.80	0.05	2.52		
	2nd Cross Rd		1	54.00	0.80	0.05	2.16		
	3rd Cross Rd		1	20.00	0.30	0.05	0.30		
	Pappana Layout		1	23.00	0.30	0.05	0.35		
	8th Cross Rd								
	8thA Cross Rd		1	65.00	1.00	0.05	3.25		
	5th Cross Rd(GSST SUFI English School)		1	67.00	1.00	0.05	3.35		
	Main Road		1	200.00	1.00	0.05	10.00		
	For Profile Correction		1	190.00	0.70	0.05	6.65		
	Kondappa Garden								
	At End		1	63.00	0.30	0.05	0.95		
	2nd Cross Rd		1	54.00	0.30	0.05	0.81		
	3rd Cross Rd		1	20.00	0.30	0.05	0.30		
	Pappana Layout		1	23.00	0.30	0.05	0.35		
	8th Cross Rd								
	8thA Cross Rd		1	65.00	0.35	0.05	1.14		
	5th Cross Rd(GSST SUFI English School)		1	67.00	0.35	0.05	1.17		
	Main Road		1	200.00	0.35	0.05	3.50		
	For New Asphalt Road		1	190.00	0.40	0.05	3.80		
	Kondappa Garden								
	At End		1	15.00	5.60	0.05	4.20		
	1st Cross Rd		1	15.00	4.00	0.05	3.00		
							47.79	**10393.90**	**496672.51**
10	Providing and laying **Bituminous Concrete** with 40/60 TPH capacity hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder VG-30, @ 5.4 per cent of mix and filler, transporting the hot mix to work site, laying with mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 507 complete in all respects (V-III, P.No.38, I.No.5.16C of CSR 2023-24).								
	Basic rate	**10954.00**							
	Area Weightage 10%	**1095.40**							
	Total	**12049.40**							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	For BC	Cum							
	Kondappa Garden								
	At End		1	15.00	5.60	0.04	3.36		
	1st Cross Rd		1	63.00	5.80	0.04	14.62		
	2nd Cross Rd		1	54.00	5.20	0.04	11.23		
	3rd Cross Rd		1	15.00	4.00	0.04	2.40		
	Pappana Layout		1	20.00	4.00	0.04	3.20		
	8th Cross Rd		1	23.00	4.00	0.04	3.68		
	8thA Cross Rd		1	65.00	6.00	0.04	15.60		
	5th Cross Rd(GSST SUFI English School)		1	67.00	5.00	0.04	13.40		
	Main Road		1	200.00	5.70	0.04	45.60		
			1	190.00	5.60	0.04	42.56		
							155.65	**12049.40**	**1875465.01**
11	Construction of **dry lean cement concrete** Sub- base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25 mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table 600-1, cement content not to be less than 150 kg/ m3, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 t vibratory roller, finishing and curing. (V-III Page No.49, Item No.6.1 of CSR 2023-24)								
	Basic rate	**4920.00**							
	Area Weightage 10%	**492.00**							
	Total	**5412.00**							
		Cum							
	For CC Road								
	Munithimmaiah Layout								
	2nd Cross Rd		1	26.00	4.00	0.15	15.60		
	3rd Cross Rd		1	22.00	4.00	0.15	13.20		
	At End		1	7.00	4.50	0.15	4.73		
	Pappana Layout								
	Near SWD Drain		1	30.00	4.00	0.15	18.00		
							51.53	**5412.00**	**278853.30**
12	Providing and constructing un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base, with 43 grade cement or any other type as per Clause 1501.2.2 **M30 (Grade)**, coarse and fine aggregates conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm, mixed in a concrete mixer of not less than 0.2 cum capacity andappropriate weigh batcher using approved mix design, laid in approved fixed side formwork (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the formwork as per drawing), spreading the concrete with shovels, rakes, compacted using needle, screed and plate vibrators and finished in continuous operation including construction joints, , primer, sealant , curing of concrete slabs for 14- days, and water finishing to lines and grade as per drawing and technical specification clause 1501 with all lead, lifts, loading & unloading charges, cost and conveyance of all materials, labour, equipments etc., complete. as per the directions of the Engineer-in-charge of the work.(V-III, P.No-148,I No-16.28, CSR 2023-24).								
	Basic rate	**6754.00**							

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
	Area Weightage 10%	675.40							
	Total	7429.40							
		Cum							
	For CC Road								
	Munithimmaiah Layout								
	2nd Cross Rd								
	3rd Cross Rd								
	At End		1	26.00	4.00	0.15	15.60		
	Pappana Layout		1	22.00	4.00	0.15	13.20		
	Near SWD Drain		1	7.00	4.50	0.15	4.73		
			1	30.00	4.00	0.15	18.00		
							51.53	**7429.40**	**382799.84**
13	Providing and laying of **hot applied thermoplastic compound** 2.5 mm thick including reflectorising glass beads @ 250 g/ m2 area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35:2015.The finished surface to be level, uniform and free from streaks and holes.(V-III,I No-8.15, P.No-67 of CSR 2023-24)								
	Basic rate	530.00							
	Area Weightage 10%	53.00							
	Total	583.00							
		Sqm							
	For Edge Line								
	Kondappa Garden								
	At End		2	15.00	0.10		3.00		
			2	63.00	0.10		12.60		
	1st Cross Rd		2	54.00	0.10		10.80		
	2nd Cross Rd		2	15.00	0.10		3.00		
	3rd Cross Rd		2	20.00	0.10		4.00		
	Pappana Layout		2	23.00	0.10		4.60		
	8th Cross Rd		2	65.00	0.10		13.00		
	8thA Cross Rd		2	67.00	0.10		13.40		
	5th Cross Rd(GSST SUFI English School)		2	200.00	0.10		40.00		
	Main Road		2	190.00	0.10		38.00		
							142.40	**583.00**	**83,019.20**
14	Cost of Haulage Excluding Loading and Unloading Taking output 25 t load and lead 10 km = 100 t.km (V-III Page No.5, Item No.1.4C of CSR 2023-24)								
	Basic rate	8.00							
	10KM Lead = 8*10	80.00							
	Area Weightage 10%	8.00							
	Total	88.00							
		t.Km							
	Qty frm Item No-2		1	259.97	1.28		332.76		
	Qty frm Item No-4		1	33.53	2.10		70.40		
	Qty frm Item No-5		1	187.50	1.28		240.00		
							643.16	**88.00**	**56,598.38**

Sl No	Description of Items	Unit	No	Length	Width	Depth	Quantity	Rate	Amount
								Total Construction Cost	4236339.30
								18% GST For S.R Items	762541.07
								Sub Total 1	4998880.38
								Utility Shifting,Miscellaneous and Rounding off	1,119.62
								GRAND TOTAL	5000000.00

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3. The rates adopted based on the PWD SR,Bangalore circle for year 2023-2024, Data Rates

Assistant Engineer
Ward-01
BBMP Bangalore

Asst. Executive Engineer
Yelahanka Sub Division
BBMP Bangalore

Executive Engineer,
Yelahanka Division
BBMP Bangalore

Technical Sanction
Accorded For R.S.D. Works
Head of A/C.....
CER NO :..169..... Dt:02/03/23